PETITION FOR EVALUATION AND APPROVAL OF REGULATED MEDICAL WASTE TREATMENT TECHNOLOGY PART A: GENERAL INFORMATION



Name of Company					
Name of Petitioner (Must be an individual	(s) N	ame)			
Trade Name of Device		Model Number			
Petitioner Address					
City	State		ZIP Code	Petitioner Telephone Number	
Department Use Only					
Date Application and Questionnaire Date Co Received		omplete			

Note: The review and assessment process will not commence until all information required is submitted by the petitioner and received by the Department.

EVALUATION OF MEDICAL WASTE TREATMENT TECHNOLOGY INFORMATION REQUEST FORM

Complete the following questionnaire and return it along with the application. Please include any additional support data that may be applicable. Use additional paper if necessary. Reference with the related section and number(s).

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A1.	Is the alternative treatment technology best suited for onsite use at the point of generation, or is it adaptable for use as a commercial or regional treatment process receiving waste from several generators?					
	? Onsite ? Commercial/Regional ? Both					
A2.	Is this treatment technology specified for use at small generator facilities such as physician, dental, or veterinary offices or clinics?					
	? No ? Yes					
A3.	Has this alternative treatment technology been approved/disapproved in any other state? If so, please indicate which states have issued a decision and submit copies of approvals/disapprovals.					
B. L	EVEL OF TREATMENT					
В1	. Does the level of microbial inactivation achieved by the treeatment process meet the following definition:					
	"Inactivation of vegetative bacteria, fungi, all viruses, parasites, and mycobacteria at a 6 Log ₁₀ reduction or greater, and <u>B. stearothermophilus</u> spores or <u>B. subtilis</u> spores at a 4 Log ₁₀ reduction or greater."?					
	Yes No – If no, specify where the definition is unfulfilled.					
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C. CHARACTERIZATION OF PROPOSED TREATMENT PROCESS

	Please check the appropriate categories that be sed technology. Proposed treatment technologies ories listed below.		
	? Chemical ? Heat ? Encapsulation ? Irradiation ? Grinder ? Mechanical ? Hammermill ? Microwave ? Other(specify)	? Plasma Ar? Radiowave? Shredder	
D. WA	ASTE COMPATIBILITY WITH PROPOSED TREA	ATMENT PRO	OCESS
	se identify whether the proposed system is comparing types of waste.	atible or non-c	compatible with the
	Types of Waste	Compatible	Non-compatible
D1.	Cultures and stocks of infectious agents and associated biologicals	?	?
D2.	Liquid human and animal waste including blood and blood products and body fluids	?	?
D3.	Human anatomical waste, tissues and body fluids	?	?
D4.	Contaminated waste from animals	?	?
D5.	Sharps	?	?
	e refer to the State medical waste regulations for furtories and prescribed medical waste management requ		of the medical waste
D6.	What waste characteristics present the most characteristics?	allenge to the	proposed treatment
	? Organic materials ? Liquids ? Density/co? Other characteristics (Specify)	mpaction	
D7.	Describe by composition (i.e., material and perc would provide the most challenge to the proposed	_	

E. BY-PRODUCTS OF THE TREATMENT PROCESS

E1.	Please indicate all by-products which may be generated as a result of this alternative t technology.							
	? Ash ?	Liquid ?	Slag ? Smoke Steam	Vapors or Fumes				
E2.	If any of the above by-products a	are indicated, h	now will they be	controlled?				
E3.	If there are no by-products indicate	ated, how was	this determined	?				
E4.	Are any of these by-products tox necessary controls, personal prot			•				
F. M	IICROBIALOGICAL TEST PRO	CEDURES						
para	proposed treatment method shall be sites, viruses, and mycobacteria at obial group is required for testing.	a 6 Log ₁₀ redu						
Fl.	Lister below are several test org determine the effectiveness of a inactivation of any of the biolog normal operating conditions, ple	given treatmen	nt method. If the using the prope	osed treatment process under				
Fung Fung I Viru	☐ Candida albicans(ATCC 18804 ☐ Penicillium chrysogenum(ATC ☐ Aspergillus niger	C 15442)	☐ Giardi Mycobac ☐ Mycob ☐ Mycob ☐ Mycob ☐ Mycob Bacterial ☐ B. stea	osporidium spp. Oocysts ia spp. Cysts teria bacterium terrae bacterium phlei bacterium bovis(BCG)(ATCC 35743)				

F. MICROBIOLOGICAL TEST PROCEDURES (CONTINUED)

F1.	Were the results certified by an independent, public health or certified testing laboratory? □ No □ Yes − If so, indicate the name, address, telephone number of the certifying laboratory and attach test protocol and results.
G.	CHEMICAL INACTIVATION TREATMENT PROCESSES
G1.	If the treatment involves the use of chemical inactivation: a) What is the name of the active ingredients? b) What concentrations must be used and maintained? c) At what Ph is the chemical agent active? d) What is the necessary contact time? e) If there is any incompatibility with specific materials and surfaces, specify
G2.	What is the active life of the chemical agent after it has been exposed to air or contaminated medical waste?
G3.	Have studies been conducted relative to the long-term effectiveness of the chemical agent while in use? ? No ? Yes - If yes, please attach a copy of the study and test results.
G4.	What health and safety hazards may be associated with the chemical (present and long-term)? Specify
G5.	Is the chemical agent registered for this specific use with the Environmental Protection Agency (EPA) Pesticide Registration Division? ? No ? Yes - If yes, provide the EPA registration number
G6.	Is the spent chemical agent classified as a hazardous waste by U.S. EPA (40 CFR Part 261) or by other state criteria? No? Yes - If yes, specify whether by USEPA or which state
G7.	Is an environmental impact study for the chemical agent available? ? No ? Yes - If yes, attach a copy of this information.

H. ENVIRONMENTAL EFFECTS ON THE TREATMENT PROCESS

H1.	Can positive or negative effects on the environment be anticipated from the use and/or disposal of the treated waste from the treatment process? ? No ? Yes - If yes, specify
H2.	What environmental, occupational, and/or public hazards would be associated with a malfunction of the treatment process? Specify
Н3.	If the treatment process includes the use of water, steam, or other liquids; how will this waste discharge be handled (i.e., sewer, recycle, etc.)? Specify
H4.	How will the treated waste from this process be disposed of (i.e., landfill, incineration, recycle, etc.)? Specify
H5.	Are the by-products identified as a hazardous waste? ? No ? Yes - Complete item M1
I. CR I1.	What are the critical factors that influence the specific treatment technology?
I2.	What are the consequences if these factors are not met? Specify
I3.	Explain the ease and/or difficulty of operation of the medical waste treatment system? Specify
I4.	What type of ongoing maintenance is required in the operation of the treatment system? Specify Maintenance Manual Attached? ? No ? Yes
I5.	What emergency measures would be required in the event of a malfunction? Specify
I6.	Are these measures addressed in an emergency plan or in the operations protocol? No ? Yes - If yes, attach a copy
I7.	What is the maximum amount of waste to be treated by this process per cycle?
I8.	How long is a cycle?

J. QUALITY ASSURANCE AND VERIFICATION OF ADEQUATE TREATMENT

J2.	What is the recommended frequency that a microbiological indicator should be used to confirm effectiveness of the system? Specify						
J3.	Other than the biological indicators listed in Section F, what other indicators, integrators, or monitoring devices would be used to show that the treatment unit or process was functioning properly? (Please describe and explain.)						
J4.	How is it determined that the (Check the appropriate item.)	-	sed waste has a	rece	ived proper trea	itment?	
	Temperature indicator:	?	Visual only	?	Continuous ?	Both	
	Pressure indicator:	?	Visual only	?	Continuous ?	Both	
	Time indicator:	?	Visual only	?	Continuous ?	Both	
	Chemical concentration indic	ator: ?	Visual only	?	Continuous ?	Both	
	? Other - Please specify						
15.	Have the treatment process a effective and accurate monitor Specify	oring of	the treatment	prod	cess?	indicators to ensure	
6.	Is there a process monitor calibration performed?	calibrat	ion schedule	esta	ablished, and a	t what frequency is	
7.	Are the process monitors int conditions? Explain.	erfaced	to the system	's o	perations to eff	ect proper treatment	
8.	Are the process monitor co before treatment is adequatel		-	ven	t operator over	-ride of the process	

K. POST TREATMENT RECYCLING

K1.		s a strategy been developed for the recycling of any part of No Yes If yes, please include additional information		
)MPL	ANCE WITH MEDICAL WASTE REGULATIONS		
L1.	regu	s your treatment technology meet the requirements of lations for medical waste decontamination and disposal? To ? Yes		's medical waste
L2.		ch of the following five categories of medical waste v system? (Check all that apply.)	will be effec	ctively treated by
			NO	YES
	a)	Cultures and Stocks	?	?
	b)	Blood and Blood Products and Body Fluids	?	?
	c)	Human Anatomical Waste,	?	?
	d)	Human Tissues and Body Fluids Sharps	?	?
	e)	Contaminated Animal Wastes	?	?
M. IN	ITER A	AGENCY COORDINATION		
M1.	other	e you inquired from the State's medical waste permit compermits are required? ? No ? Yes s, please enclose the response and requirements with you		•
NOTE	-	al governments may require permits.		

N. POTENTIAL ENVIRONMENTAL BENEFITS

N1.	Has an energy analysis been conducted on the proposed technology?
	? No ? Yes - If yes, specify and provide results of that analysis.
N2.	Has an economic analysis been performed on the proposed technology?
	? No ? Yes - If yes, specify and provide results of that analysis.
N3.	How does this treatment technology improve on existing medical waste treatment and disposal methods?
	Specify
N4.	What is the potential of this proposed technology for:
	Waste volume reduction? Specify
	Recycling? Specify

O. OTHER RELEVANT INFORMATION AND COMMENTS

Approvals received from other states, operator safety, competency or training requirements for sers/operators, etc.)	the

PETITION FOR EVALUATION AND APPROVAL OF REGULATED MEDICAL WASTE TREATMENT TECHNOLOGY PART B: ATTACHMENTS

The general information contained in Part A and this check sheet are a required part of the petition package. These assist the petitioner in submitting the petition and the Department in its review, and they are supplemental to the required documents listed below. The complete petition package consists of a completed Part A form, this Part B check sheet, all the documents listed below, and any other supportive data or information the petitioner wishes to be considered.

- ? Petitioner's submittal certification
- ? Quality Assurance and Quality Control Report
- ? Microbiological testing report
- ? Material Safety Data Sheets
- ? Environmental Protection Agency pesticide registration documents

- ? Maintenance manual
- ? Emergency operations manual
- ? Operations manual
- ? Design plans and specification